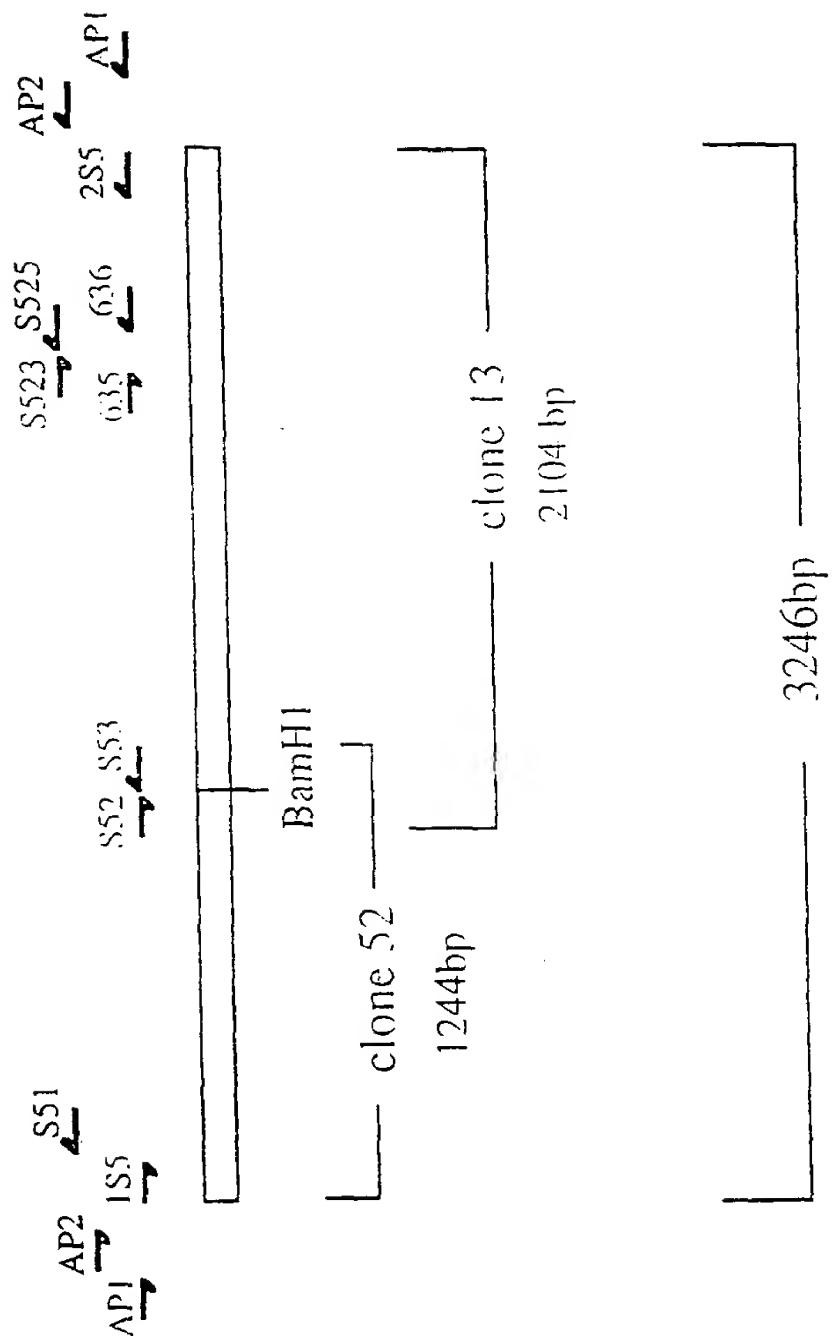
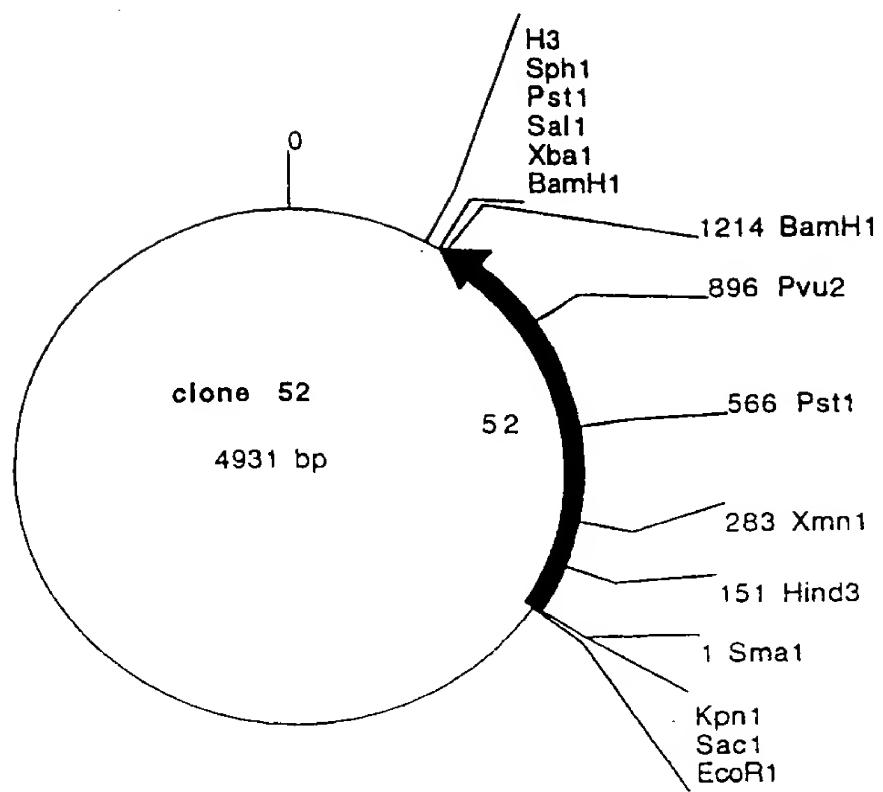


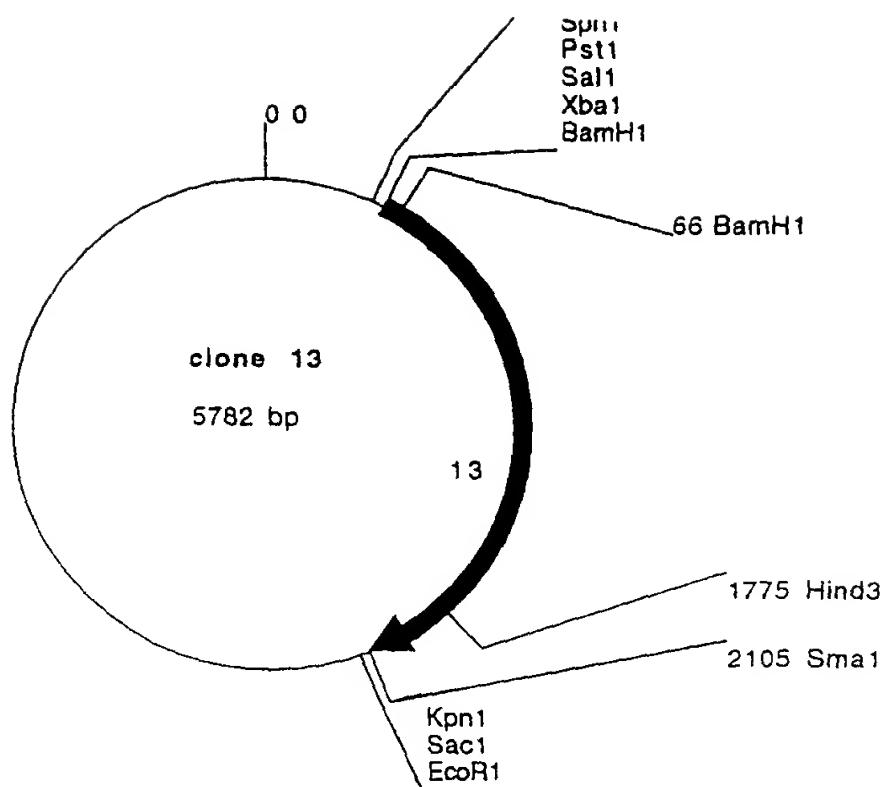
Figure 1





**Figure 2**

**Comments/References:** 52= 3' side of S5 (AtMSH3) 1244bp in pUC18/Sma1



**Figure 3**

**Comments/References:** 13 = 3' side of S5 (AtMSH3) 2104bp in pUC18/Sma1

1	CCTAAGAAAGGGCGGAAATTGGCAACCCCAAGTTGCCATAGGCCACGACCTCCATTCTAACGGAGGA																						80
81	M	G	K	Q	K	Q	T	I	S	R	F	F	A	P									144
1	K	P	K	S	P	T	H	E	P	N	P	V	A	E	S	T	P	P	P	P		15	
145	AAA	CCC	AAA	TCC	CCG	ACT	CAC	GAA	CCG	AAT	CCG	GCC	GAA	TCA	TCA	ACA	CCG	CCA	CCG			204	
16	K	I	S	A	T	V	S	F	S	P	S	K	R	K	L	S	D	H	L			35	
205	AAG	ATA	TCC	GCC	ACT	GTA	TCC	TTC	TCT	CCT	TCC	AAG	CGT	AAG	CTT	CTC	TCC	GAC	CAC	CTC		264	
36	K	I	S	A	T	V	S	F	S	P	S	K	R	K	L	S	D	H	L		55		
265	GCC	GCC	GCG	TCA	CCC	AAA	AAG	CCT	AAA	CTT	TCT	CCT	CAC	ACT	CAA	AAC	CCA	GTA	CCC	GAT		324	
56	A	A	S	P	K	K	P	K	L	S	P	H	T	Q	N	P	V	P	V	D		75	
325	CCC	ATA	TTA	CAC	CAA	AGA	TTT	CTC	CAG	AGA	TTT	CTG	GAA	CCC	TGG	CCG	GAG	GAA	TAT	GTT		384	
76	P	N	L	H	Q	R	F	L	Q	R	F	L	E	P	S	P	E	V	E	Y	V	95	
385	CCC	GAA	ACG	TCA	AAG		444																
96	P	E	T	S	S	R	K	Y	T	P	L	E	Q	Q	V	V	E	L	K			115	
445	AGC	AAG	TAC	CCA	GAT	GTG	GTG	GTT	TTG	ATG	GTG	GAA	GTT	TAC	AGG	TAC	AGA	TTC	TTC	GGA		504	
116	S	K	Y	P	D	V	V	L	M	V	E	V	G	Y	R	Y	R	F	F	G		135	
505	GAA	GAC	GCG	GAG	ATC	GCA	GCA	CGC	GTG	TTG	GGT	ATT	TAC	GCT	CAT	ATG	GAT	CAC	ATAT	TTC		564	
136	E	D	A	E	I	A	A	R	V	L	G	I	Y	A	H	M	D	H	N	F		155	
565	ATG	ACG	GCG	AGT	GTG	CCA	ACA	TTT	CGA	TTG	AAT	TTC	CAT	GTG	AGA	AGA	CTG	GTG	AAT	GCA		624	
156	M	T	A	S	V	P	T	F	R	L	N	F	H	V	R	R	L	V	N	A		175	
625	GGA	TAC	AAG	ATT	GGT	GTA	GTG	AAG	CAG	ACT	GAA	ACT	GCA	GCC	ATT	AAG	TCC	CAT	GGT	GCA		684	
176	G	Y	K	I	G	V	V	K	Q	T	E	T	A	A	I	K	S	H	G	A		195	
665	AAC	CGG	ACC	GGC	CCT	TTT	TTC	CGG	CGA	CTG	TCG	GCG	TTC	TAT	ACC	AAA	GCC	ACG	CFT	GAA		744	
196	N	R	T	G	P	F	F	R	G	I,	S	A	L,	Y	T	K	A	T	L	E		215	
745	GCG	GCT	GAG	GAT	ATA	AGT	GGT	GGT	TGT	GGT	GGT	GAA	GAA	GGT	TTT	GGT	TCA	CAG	AGT	AAT		804	
216	A	A	E	D	I	S	G	G	C	G	G	E	E	G	F	G	S	Q	S	N		235	
805	TTC	TTG	GTT	TGT	GTC	GAT	GAG	AGA	GTT	AAG	TCG	GAG	ACA	TTA	GGC	TGT	GGT	ATT	GAA		864		
236	F	L	V	C	V	D	E	R	V	K	S	E	T	L	G	C	G	I	E		255		
865	ATG	AGT	TTT	GAT	GTT	AGA	GTC	GGT	GTT	GGC	GTT	GAA	ATT	TCC	ACA	GTC	GTT	GTT	GTT		924		
256	M	S	F	D	V	R	V	G	V	V	G	V	I	S	T	G	E	V	V	V	275		

925	TAT	GAA	GAG	TTC	AAT	GAT	AAT	TTC	ATG	AGA	AGT	GGA	TTA	GAG	GCT	GTG	ATT	TTG	AGC	TTG	984
276	Y	E	E	F	N	D	N	F	M	R	S	G	L	E	A	V	I	L	S	L	295
985	TCA	CCA	GCT	GAG	CTG	TTG	CTT	GGC	CAG	CCT	CTT	TCA	CAA	CAA	ACT	GAG	AAG	TTT	TTG	GTG	1044
296	S	P	A	E	L	L	L	G	Q	P	L	S	Q	Q	T	E	K	F	L	V	315
1045	GCA	CAT	GCT	GGA	CCT	ACC	TCA	AAC	GTT	CGA	GTG	GAA	CGT	GCC	TCA	CTG	GAT	TGT	TTC	AGC	1104
316	A	M	A	G	P	T	S	N	V	R	V	E	R	A	S	L	D	C	F	S	335
1105	AAT	GGT	AAT	GCA	GTA	GAT	GAG	GTT	ATT	TCA	TTA	TGT	GAA	AAA	ATC	AGC	GCA	GGT	AAC	TTA	1164
336	N	G	N	A	V	D	E	V	I	S	L	C	E	K	I	S	A	G	N	L	355
1165	GAA	GAT	GAT	AAA	GAA	ATG	ATG	AGC	CTG	GAG	GCT	GAA	AAA	GGA	ATG	TCT	TGC	TTG	ACA	GTT	1224
356	E	D	D	K	E	M	K	L	E	A	A	E	K	G	M	S	C	L	T	V	375
1225	CAT	ACA	ATT	ATG	AAC	ATG	CCA	CAT	CTG	ACT	GTT	CAA	GCC	CTC	GCC	CTA	ACG	TTT	TGC	CAT	1284
376	H	T	I	M	N	M	P	H	L	T	V	Q	A	L	A	L	T	F	C	H	395
1285	CTC	AAA	CAG	TTT	GGA	TTT	GAA	AGG	ATC	CTT	TAC	CAA	GGG	GCC	TCA	TTT	CGC	TCT	TTG	TCA	1344
396	L	K	Q	F	G	F	E	R	I	L	Y	Q	G	A	S	F	R	S	L	S	415
1345	AGT	AAC	ACA	GAG	ATG	ACT	CTC	TCA	GCC	AAT	ACT	CTG	CAA	CAG	TTG	GAG	GTT	GTG	AAA	AAT	1404
416	S	N	T	E	M	T	L	S	A	N	T	L	Q	Q	L	E	V	V	K	N	435
1405	AAT	TCA	GAT	GGA	TCG	GAA	TCT	GGC	TCC	TTA	TTC	CAT	AAT	ATG	AAT	CAC	ACA	CTT	ACA	GTA	1464
436	N	S	D	G	S	E	S	G	S	L	F	H	N	M	N	H	T	L	T	V	455
1465	TAT	GCT	TCC	AGG	CTT	ACA	CAC	TGG	GTG	ACT	CAT	CCT	CTA	TGC	GAT	AGA	AAT	TTC	TTG	ATA	1524
456	Y	G	S	R	L	L	R	H	W	V	T	H	P	L	C	D	R	N	L	I	475
1525	TCT	GCT	CGG	CTT	GAT	GCT	GTT	TCT	GAC	ATT	TCT	GCT	TGC	ATG	GGA	TCT	CAT	AGT	TCT	TCC	1584
476	S	A	R	L	D	A	V	S	E	I	S	A	C	M	G	S	H	S	S	S	495
1585	CAG	CTC	AGC	AGT	GAG	TTG	GTT	GAA	GAA	GGT	TCT	GAG	AGA	GCA	ATT	GTA	TCA	CCT	GAG	TTT	1644
496	Q	L	S	S	E	L	V	E	E	G	S	E	R	A	I	V	S	P	E	F	515
1645	TAT	CTC	GTG	CTC	TCC	TCA	GTC	TTG	ACA	GCT	ATG	TCT	AGA	TCA	TCT	GAT	ATT	CAA	CGT	GGA	1704
516	Y	L	V	L	S	S	V	L	T	A	M	S	R	S	S	D	I	Q	R	G	535
1705	ATA	ACA	AGA	ATC	TTC	CAT	CGG	ACT	GCT	AAA	GCA	GAG	TTC	ATT	GCA	GTT	ATG	GAA	GCT	1764	
536	I	T	R	I	F	H	R	T	A	K	A	T	E	F	I	A	V	M	E	A	555
1765	ATT	TTA	CTT	GGG	GGG	AAG	CAA	ATT	CAG	CGG	CTT	GGC	ATA	AAG	CAC	GAC	TCT	GAA	ATG	AGG	1824
556	I	L	L	A	G	K	Q	I	Q	R	L	G	I	K	Q	D	S	E	M	R	575

Figure 4 (Continued)

1825	AGT	ATG	CAA	TCT	GCA	ACT	GTG	CGA	TCT	ACT	CTT	TTG	AGA	AAA	TTG	ATT	TCT	GTT	ATT	TCA	1884	
576	S	M	Q	S	A	T	V	R	S	T	L	L	R	K	L	I	S	V	I	S	595	
1885	TCC	CCT	GTG	GTG	GTC	GAC	AAT	GCC	GGA	AAA	CTT	CTT	CTC	TCT	GCC	CTA	AAT	AAG	GAA	GCG	GCT	1944
596	S	P	V	V	D	N	A	G	K	L	L	S	A	L	N	K	E	A	A	A	615	
1945	GTT	CGA	GGT	GAC	TTG	CTC	GAC	ATA	CTA	ATC	ACT	TCC	AGC	GAC	CAA	TTT	CCT	GAG	CTT	GCT	2004	
616	V	R	G	D	L	L	D	I	L	V	I	R	E	K	L	D	Q	F	P	E	635	
2005	GAA	GCT	CGC	CAA	GCA	GTT	TTA	GTC	ATC	AGG	GAA	AGG	CTG	GAT	TCC	TCG	ATA	GCT	TCA	TTT	2064	
636	E	A	R	Q	A	V	L	V	I	R	E	K	L	D	S	S	I	A	S	F	655	
2065	CGC	AAG	AAG	CTC	GCT	ATT	CGA	AAT	TTG	GAA	TTT	CTT	CAA	GTT	TCC	GGG	ATC	ACA	CAT	TTC	2124	
656	R	K	K	L	A	I	R	N	L	E	F	L	Q	V	S	G	I	T	H	L	675	
2125	ATA	GAG	CTG	CCC	GTT	GAT	TCC	AAG	GTC	CCT	ATG	ATT	TGG	GTG	AAA	GTA	AAT	AGC	ACC	AAG	2184	
676	I	E	L	P	V	D	S	K	V	P	H	N	W	V	K	V	N	S	T	K	695	
2185	AAG	ACT	ATT	CGA	TAT	CAT	CCC	CCA	GAA	ATA	GTA	GCT	GCT	GAT	GAG	GAT	GCT	CTA	GCA	2244		
696	K	T	I	R	Y	H	P	P	E	I	V	A	G	I	D	E	L	A	L	A	715	
2245	ACT	GAA	CAT	CTT	GCC	ATT	GTG	AAC	CGA	GCT	TCG	TGG	GAT	AGT	TTC	CTC	AAG	AGT	TTC	AGT	2304	
716	T	E	H	L	A	I	V	N	R	A	S	W	D	S	F	L	K	S	F	S	735	
2305	AGA	TAC	TAC	ACA	GAT	TTT	AAG	GCT	GCC	GTT	CAA	GCT	CTT	GCT	GCA	CTG	GAC	TGT	TTC	CAC	2364	
736	R	Y	Y	T	D	F	K	A	A	V	Q	A	L	A	A	L	D	C	L	H	755	
2365	TCC	CTT	TCA	ACT	CTA	TCT	AGA	AAC	AAG	AAC	TAT	GTC	CGT	CCC	GAG	TTT	GTC	GAT	GAC	TGT	2424	
756	S	L	S	T	L	S	R	N	K	N	Y	V	R	P	E	F	V	D	D	C	775	
2425	GAA	CCA	GTT	GAG	ATA	AAC	ATA	CAG	TCT	GGT	CAT	CCT	GTA	CTG	GAG	ACT	ATA	TTA	CAA	2484		
776	E	P	V	E	I	N	I	Q	S	G	R	H	P	V	L	E	T	I	L	Q	795	
2485	GAT	AAC	TTC	GTC	CCA	AAT	GAC	ACA	ATT	TTG	CAT	GCA	GAA	GGG	GAA	TAT	TGC	CAA	ATT	ATC	2544	
796	D	N	F	V	P	N	D	T	I	L	H	A	E	G	E	Y	C	Q	I	I	815	
2545	ACC	GGA	CCT	AAC	ATG	GGG	GCA	AAG	AGC	TGC	TAT	ATC	CGT	CAA	GTT	GCT	TTA	ATT	TCC	ATA	2604	
816	F	G	P	N	M	G	G	K	S	C	Y	I	R	Q	V	A	L	I	S	I	835	
2605	ATG	GCT	CAG	GGT	TCC	TTT	GTA	CCA	GGG	TCA	TTC	GCC	AAG	CTG	CAC	GTC	CTT	GAT	GGT	2664		
836	M	A	Q	V	G	S	F	V	P	A	K	S	F	A	K	L	H	V	L	D	855	
2665	GTT	TTC	ACT	CGG	ATG	GGT	GCT	TCA	GAC	AGT	ATC	CAG	CAT	GGC	AGA	AGT	ACC	TTT	CTA	GAA	2724	
856	V	F	T	R	M	G	A	S	D	I	Q	H	G	R	S	T	F	L	E	875		

Figure 4 (Continued)

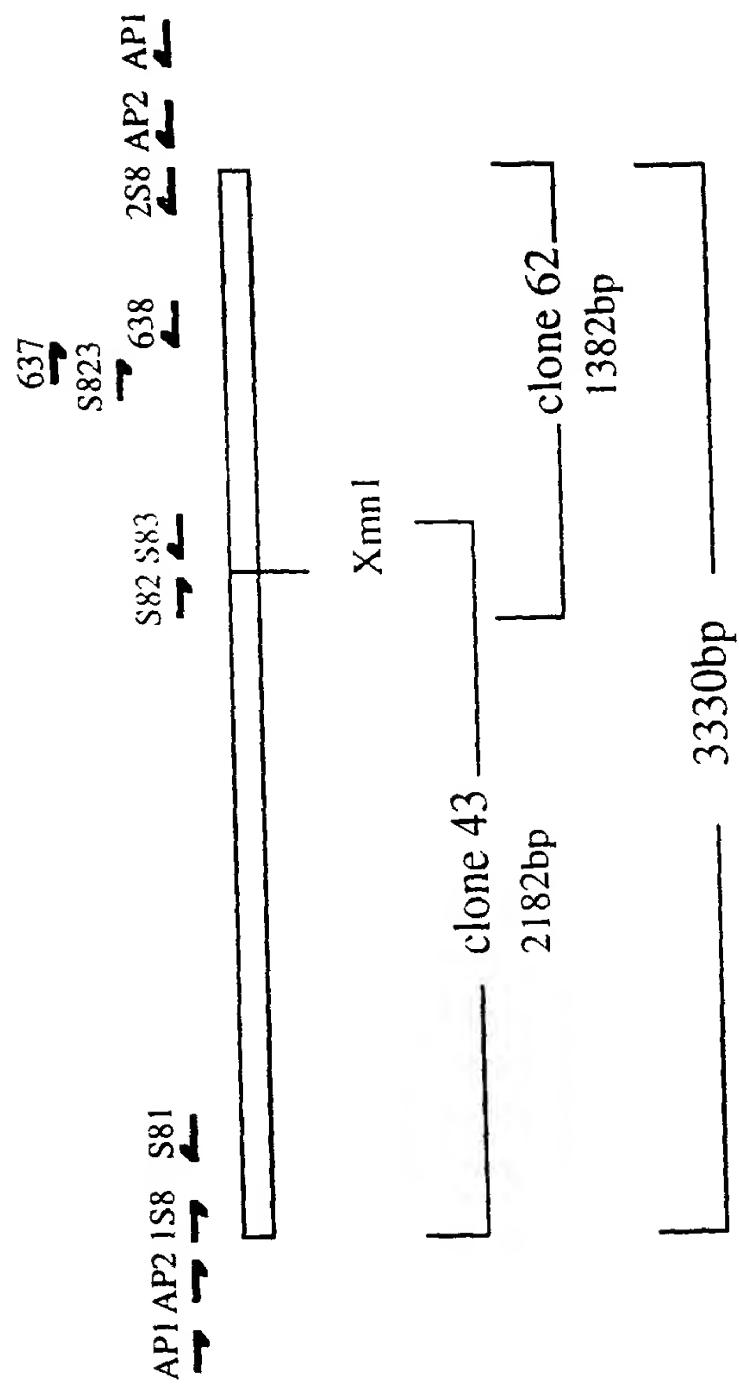
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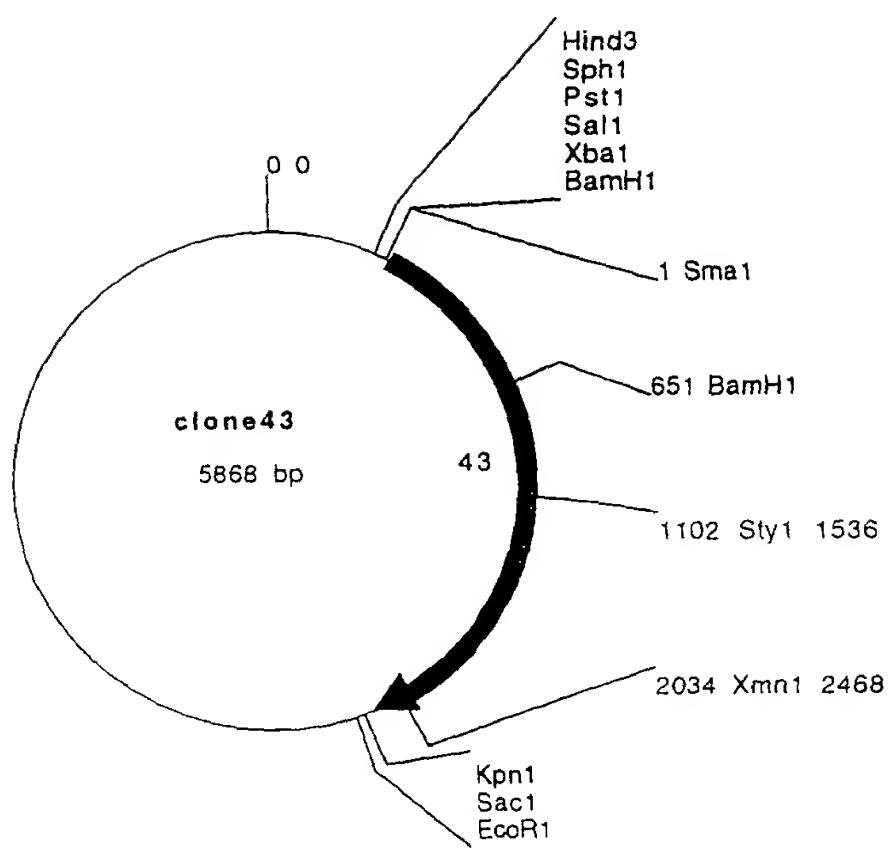
2725	GAA	TTA	AGT	GAA	GCG	TCA	CAC	ATA	ATC	AGA	ACC	TGT	TCT	CGT	CCT	GTT	ATA	TTA	2784			
876	E	L	S	E	A	S	H	I	R	T	C	S	R	S	L	V	I	L	895			
2785	GAT	GAG	CTT	GGG	AGA	GGC	ACT	AGC	ACA	CAC	GAC	GGT	GCC	ATT	GCC	TAT	GCA	ACA	TTA	2844		
896	D	E	L	G	R	G	T	S	T	H	D	G	V	A	I	A	Y	A	T	915		
2845	CAG	CAT	CTC	CTA	GCA	GAA	RAG	AGA	TGT	TTG	GTC	CTT	TTT	GTC	ACG	CAT	TAC	CCT	GAA	ATA	2904	
916	Q	H	L	L	A	E	K	R	C	L	V	L	F	V	T	H	Y	P	E	I	935	
2905	GCT	GAG	ATC	AGT	AAC	GGG	TTC	CCA	GGT	TCT	GTC	TAC	CGT	CAT	GTC	TAT	TCG	TAT	CTG	ACA	2964	
936	A	E	I	S	N	G	F	P	G	S	V	G	T	Y	H	V	S	Y	L	T	955	
2965	TTC	CAG	AAG	GAT	AAA	GGG	AGT	TAT	GAT	CAT	GAT	GAT	GTG	ACC	TAC	CTA	TAT	AAG	CTT	GTG	3024	
956	L	Q	K	R	D	K	G	S	Y	D	H	D	D	V	T	Y	L	Y	K	L	V	975
3025	CGT	GGT	CTT	TGC	AGC	AGG	AGC	TTC	GGT	TTT	GTC	TTT	GTC	CAG	CTT	GCC	CAG	ATA	CCT	CCA	3084	
976	R	G	L	C	S	R	S	F	G	F	K	V	A	Q	L	A	Q	I	P	P	995	
3085	TCA	TGT	ATA	CGT	CGA	GCC	ATT	TCA	ATG	GCT	GCA	AAA	TTC	GAA	TTC	GCT	GAG	GTA	CGT	GCA	AGA	3144
996	S	C	I	R	R	A	I	S	M	A	A	K	L	E	A	E	V	R	A	R	1015	
3145	GAG	AGA	AAT	ACA	CCG	ATG	GGG	GAA	CCA	GAA	GAA	CAT	GAA	GAA	CGG	AGA	GGG	GCA	GAA	GAA	3204	
1016	E	R	N	T	R	M	G	E	P	E	G	H	E	E	P	R	G	A	E	E	1035	
3205	TCT	ATT	TCC	GCT	CTA	GGT	GAC	TTG	TTT	GCA	GAC	CTG	AAA	TTT	GCT	CTC	TCT	GAA	GAG	GAC	3264	
1036	S	I	S	A	L	G	D	L	F	A	D	L	K	F	A	L	S	E	E	D	1055	
3265	CCT	TGG	AAA	GCA	TTC	GAG	TTT	TTA	AAG	CAT	GCT	TGG	AAG	ATT	GCT	GGC	AAA	ATC	AGA	CTA	3324	
1056	P	W	K	A	F	E	F	L	K	H	A	W	K	I	A	G	K	I	R	L	1075	
3325	AAA	CCA	ACT	TGT	TCA	TTT	TGA	TTT	TTA	TCT	ACATT	ATA	GGT	CTT	GAT	CAT	CTG	TAG	TGG	3397		
1076	K	P	T	C	S	F	*														1082	
3398	TACTAACTT	ATG	TGT	ATT	AGT	ATA	ACA	AGA	AAA	GAG	ATT	TAG	ATG	TCT	AAT	CCG	3458					
1	M	C	I	S	I	T	R	K	E	N	*	M	D	S	N	P	5					
3459	GTG	TTG	CAG	TAC	ATC	TTT	TCT	CCA	CCC	GCA	TAA	AAAAAA	AAAAAA	AAAAAA	AAAAAA	AAAAAA	3522					
6	V	L	Q	Y	I	F	S	P	P	A	*						16					

Figure 4 (Continued)

Figure 5

Figure 6

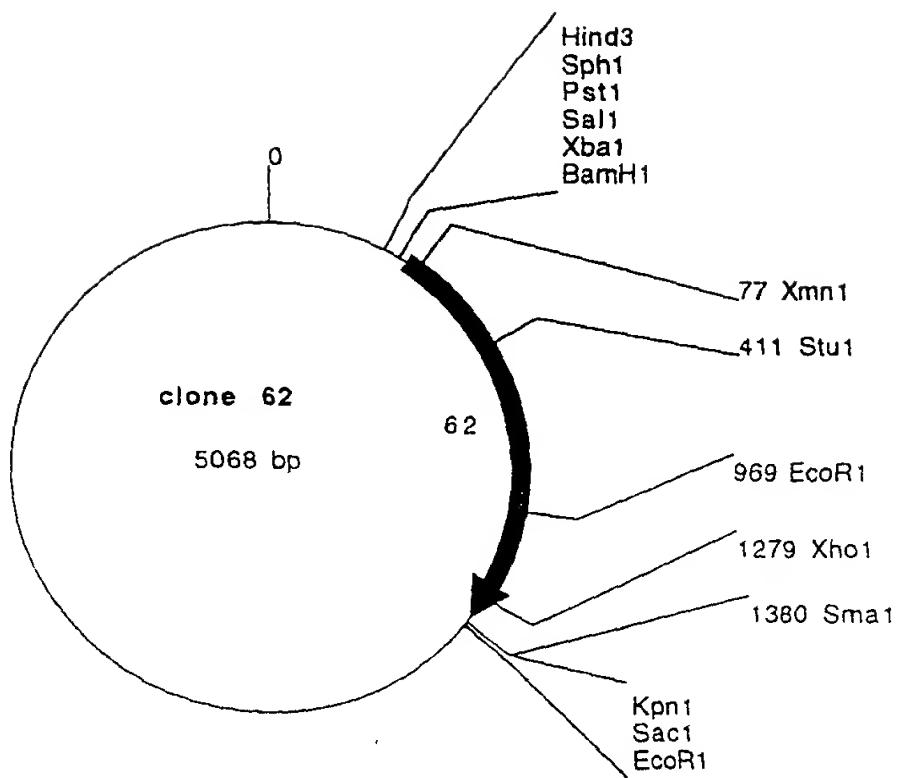




**Figure 7**

**Comments/References:** 43= 5' side of S8 (AtMSH6) 2182 bp in pUC18/Sma1

PCT/EP98/06977 - 20000606 00000000

**Figure 8**

**Comments/References:** 62= 3' side of S8 (AtMSH6) 1379bp in pUC18/Sma1

1	AAAAGTTGAGCCCTGAGGAGTATCGTTCCGCCATTCTACGACGCCATTCTCACTCTCAATTCCAAATTTGGGCCAAGGCAAATCTTCCCC	80
81	TTTCGAATTCTCAGCTCAAAACATCGTTTCTCAATTCTCACTCTCAATTCCAAATTTGGGCCAAGGCAAATCTTCCCC	153
1	ATG CAG CGC CAG M Q R Q	4
5	R S I L S F F Q K P T A A T T K G L V S	24
5	AGA TCG ATT TTG TCT TTC TCA AAA CCC ACC GCG GCG ACT ACG AAG GGT TTG GTT TCC	213
214	GGC GAT GCT GCT AGC GGC GGC AGC GGA GGA CCA CGA TTT AAT GTG AAG GAA GGG	273
25	G D A A S G G G S G P R F N V R E G	44
45	GAT GCT AAA GGC GAC GCT TCT GTA CGT TTT GCT GTC TCG AAA TCT GTC GAT GAG GTT AGA	333
45	D A K G D A S V R F A V S K S V D E V R	64
65	GGA ACG GAT ACT CCA CCG GAG AAG GTT CCG CGT CGT GTC CTC AAC ATT ATG CAT AAG TTT GTA AAA	393
65	G T D T P P E K V P R R V L P S G F K P	84
85	GCT GAA TCC GCC GST GAT GCT TCG TCC CTG TTC TCC AAC ATT ATG CAT AAG TTT GTA AAA	453
85	A E S A G D A S S L F S N I M H K F V K	104
105	GTC GAT GAT CGA GAT TGT TCT GGA GAG AGC CGA GAA GAT GTT GTC CCG CTG AAT GAT	513
105	V D D R C S G E R S R E D V V P L N D	124
125	TCA TCT CTA TGT ATG AAG GCT ATT GAT GTT ATT CCT CAA ATT CCT TCC ATT AAT GGT AAA	573
125	S S L C M K A N D V I P Q F R S N N G K	144
145	ACT CAA GAA AGA AAC CAT GCT TTT AGT TTC AGT GGG AGA GCT GAA CTT AGA TCA GTA GAA	633
145	T Q E R N H A F S G R A E L R S V E	164
165	GAT ATA GGA GTA GAT GGC GAT GTT CCT GGT CCA GAA ACA CCA GGG ATT CGT CCA CGT GCT	693
165	D I G V D G V P G P E T P G M R P R A	184
185	TCT CGC TTG AAG CGA GTT CTG GAG GAT GAA ATG ACT ATT AAG GAG GAT AAG GTT CCT GTA	753
185	S R L K R V L E D E M T F K E D K V P V	204
205	TTG GAC TCT AAC AAC AAA AGG CTG AAA ATG CTC CAG GAT CCG GTT TGT GGA GAG AAG AAA GAA	813
205	L D S N K R L K M L Q D P V C G E K K E	224
225	GTA AAC GAA GGA ACC AAA ATT GAA TGG CTT GAG TCT CGA ATC AGG GAT GCC ATT AGA	873
225	V N E G T K F E W L E S S R I R D A N R	244
245	AGA CGT CCT GAT GAT CCC CTT TAC GAT AGA AAG ACC TTA CAC ATA CCA CCT GAT GTT TTC	933
245	R R P D O P I Y D R K T L H I P P D V F	264

Figure 9

934	AAG AAA ATG TCT GCA TCA CAA AAG CAA TAT TGG AGT GTT AAG AGT GAA TAT ATG GAC ATT	993
265	K K M S A S Q K Q Y W S V K S E Y M D I	284
996	GTG CTT TTC TTT AAA GTG GGG AAA TTT TAT GAG CTG TAT GAG CTA GAT GCG GAA TTA GGT	1053
285	V L F F K V G K F Y E L Y E L D A E L G	304
1054	CAC AAG GAG CTT GAC TGG AAG ATG ACC ATG AGT GGT GTG GGA AAA TGC AGA CAG GTT GGT	1113
305	H K E L D W K M T M S G V G K C R Q V G	324
1114	ATC TCT GAA AGT GGG ATA GAT GAG GCA GTG CAA AAG CTA TTA GCT CGT GGA TAT AAA GTT	1173
325	I S E S G I D E A V Q K L A R G Y K V	344
1174	GGA CGA ATC GAG CAG CTA GAA ACA TCT GAC CAA GCA AAA GCC AGA GGT GCT AAT ACT ATA	1233
345	G R I E Q L E T S D Q A K A R G A N T I	364
1234	ATT CCA AGG AAG CTA GTT CAG GTA TTA ACT CCA TCA ACA GCA AGC GAG GCA AAC ATC GGG	1293
365	I P R K L V Q V L T P S T A S E G N I G	384
1294	CCT GAT GCC GTC CAT CTT GCT ATA AAA GAG ATC AAA ATG GAG CTA CAA AAG TGT TCA	1353
385	P D A V H L L A I K E I K M E L Q K C S	404
1354	ACT GTG TAT GGA TTT GCT TTT GGT GAC TGT GCT GCC TTG AGG TTT TGG GTT GGG TCC ATC	1413
405	T V Y G F A F V D C A A L R F W V G S I	424
1414	AGC GAT GAT GCA TCA TGT GCT CTT GCG TTA TTG ATG CAG GTT TCT CCA AAG GAA	1473
425	S D D A S C A A L G A L M Q V S P K E	444
1474	GTG TTA TAT GAC AGT AAA GGG CTA TCA AGA GAA CAA AAG GCT CTA AGG AAA TAT ACC	1533
445	V L Y D S K G L S R E A Q K A L R K Y T	464
1534	TTG ACA GGG TCT ACG GCG GTA CAG TTG GCT CCA GTA CAA GTA ATG GGG GAT ACA GAT	1593
465	L T G S T A V Q L A P V P Q V M G D T D	484
1594	GCT GGA GTT AGA AAT ATA GAA TCT AAC GGA TAC TTT AAA GGT TCT TCT GAA TCA	1653
485	A A G V R N I I E S N G Y F K G S S E S	504
1654	TGG AAC TGT GCT GTT GAT GGT CTA AAT GAA TGT GAT GTT GCC CTT AGT GCT CTT GGA GAG	1713
505	W N C A V D G L N E C D V A L S A L G E	524
1714	CTA ATT AAT CAT CTG TCT AGG CTA AAG CTA GAA GAT CTA CTT AAG CAT GGG GAT ATT TTT	1773
525	L I N H L S R L K L E D V L K H G D I F	544
1774	CCA TAC CAA GTT TAC AGG GGT CTC AGA ATT GAT GGC CAG ACG ATG GAA AAT CTT GAG	1833
545	P Y Q V Y R G C L R I D G Q T M V N L E	564

Figure 9 (Continued)

1834	ATA	TTT	AAC	AAT	AGC	TGT	GAT	GGT	CCT	TCA	GGG	ACC	TTG	TAC	AAA	TAT	CTT	GAT	AAC	1893	
565	I	F	N	N	S	C	D	G	G	P	S	G	T	L	Y	K	Y	L	D	N	584
1894	TGT	GTT	AGT	CCA	ACT	GGT	AAG	CGA	CTC	TGA	AGG	AAT	TGG	ATC	TGC	CAT	CCA	CTC	AAA	GAT	1953
585	C	V	S	P	T	G	K	R	L	L	R	N	W	I	C	H	P	L	K	D	604
1954	GTA	GAA	AGC	ATC	AAT	AAA	CGG	CTT	GAT	GTA	GAA	TTC	ACG	GCA	AAC	TCA	GAA	AGT	2013		
605	V	E	S	I	N	K	R	L	D	V	V	E	E	F	T	A	N	S	E	S	624
2014	ATG	CAA	ATC	ACT	GGC	CAG	TAT	CTC	CAC	AAA	CTT	CCA	GAC	TTA	GAA	AGA	CTG	CTC	GGG	CGC	2073
625	M	Q	I	T	G	Q	Y	I	H	K	L	P	D	L	E	R	L	G	R	644	
2074	ATC	AAG	TCT	AGC	GTT	CGA	TCA	TCA	GCC	TCT	GTC	TG	CCT	GCT	CRT	CTG	GGG	AAA	AAA	GTG	2133
645	I	K	S	S	V	R	S	S	A	S	V	L	P	A	L	G	K	K	V	664	
2134	CTG	AAA	CAA	CGA	GTT	AAA	CGA	TTT	GGG	CAA	ATT	GTC	AAA	GTC	AGA	AGT	GGA	ATT	GAT	2193	
665	L	K	Q	R	V	K	A	F	G	Q	I	V	K	G	F	R	S	G	I	D	684
2194	CTG	TTG	TTG	GCT	CTA	CAG	AAG	GAA	TCA	AAT	ATG	ATG	ATG	ATG	CTT	TAT	AAA	CTC	TGT	AAA	2253
685	L	L	A	L	Q	K	E	S	N	M	M	S	L	L	Y	K	L	C	K	704	
2254	CTT	CCT	ATA	TTA	GTA	GGG	AAA	AGC	GGG	CTA	GAG	TAA	TTT	CTT	CCT	CAA	TTC	GAA	GCA	GCC	2313
705	L	P	I	L	V	G	K	S	G	L	E	L	F	L	S	Q	F	E	A	A	724
2314	ATA	GAT	AGC	GAC	TTT	CCA	AAT	TAT	CAG	AAC	CAA	GAT	GTG	ACA	GAT	GAA	AAC	GCT	GAA	ACT	2373
725	I	D	S	D	F	P	N	Y	Q	N	Q	D	V	T	D	E	N	A	E	T	744
2374	CTC	ACA	ATA	CTT	ATC	GAA	CTT	TTT	ATC	GAA	AGA	GCA	ACT	CAA	TGG	TCT	GAG	GTC	ATT	CAC	2433
745	L	T	I	L	I	E	L	F	I	E	R	A	T	Q	W	S	E	V	I	H	764
2434	ACC	ATA	AGC	TGC	CTA	GAT	GTC	CTG	AGA	TCT	TTT	GCA	ATC	GCA	GCA	AGT	CTC	TCT	GCT	GGA	2493
765	T	I	S	C	L	D	V	L	R	S	F	A	I	A	S	L	S	A	G	784	
2494	AGC	ATG	GCC	AGG	CCT	GTT	ATT	TTT	CCC	GAA	TCA	GAA	GCT	ACA	GAT	CAG	AAT	CAG	AAA	ACA	2553
785	S	M	A	R	P	V	I	F	P	E	S	E	A	T	D	Q	N	Q	K	T	804
2554	AAA	GGG	CCA	ATA	CTT	AAA	ATC	CAA	GGA	CTA	TGG	CAT	CCA	TTT	GCA	GTC	GCC	GAT	GGT	2613	
805	K	G	P	I	L	K	I	Q	G	L	W	H	P	F	A	V	A	D	G	824	
2614	CAA	TTC	CCT	GTT	CCG	AAT	GAT	ATA	CTC	CTT	GGC	GAG	GCT	AGA	AGC	AGT	GGC	AGC	ATT	2673	
825	Q	L	P	V	P	N	D	I	L	L	G	E	A	R	R	S	S	G	S	I	844
2674	CAT	CCT	CGG	TCA	TTG	TTA	CTG	ACG	GGG	CCA	AAC	ATG	GGC	GGG	AAA	TCA	ACT	CTT	CTT	CGT	2733
845	H	P	R	S	L	L	T	G	G	P	N	M	G	G	K	S	T	L	L	R	864

Figure 9 (Continued)

2734	GCA	ACA	TGT	CTG	GCC	GTT	ATC	TTT	GCC	CAA	CTT	GGC	TGC	TAC	GTG	CCG	TGT	GAG	TCT	TGC	2793	
865	A	T	C	L	A	V	I	F	A	Q	L	G	C	Y	V	P	C	E	S	C	884	
2794	GAA	ATC	TCC	CTC	GTG	GAT	ACT	ATC	TTC	ACA	AGG	CTT	GGC	GCA	TCT	GAT	AGA	ATC	ATG	ACA	2853	
885	E	I	S	L	V	D	T	I	F	T	R	L	G	A	S	D	R	I	M	T	904	
2854	GGA	GAG	AGT	ACC	TTT	TTG	GTA	GAA	TGC	ACT	GAG	ACA	GGC	TCA	GTT	CAG	AAT	GCA	ACT	2913		
905	G	E	S	T	F	L	V	E	C	T	E	T	A	S	V	L	Q	N	A	T	924	
2914	CAG	GAT	TCA	CTA	GTA	ATC	CTC	GAC	GAA	CTG	GGC	AGA	GGA	ACT	AGT	ACT	TTC	GAT	GGA	TAC	2973	
925	Q	D	S	L	V	I	L	D	E	L	G	R	G	T	S	T	F	D	G	Y	944	
2974	GCC	ATT	GCA	TAC	TCG	TCG	GTT	CGT	CAC	CTG	GTG	GAG	AAA	GTT	CAA	TGT	CGG	ATG	CTC	TTT	3033	
945	A	I	A	Y	S	V	F	R	H	L	V	E	K	V	Q	A	C	R	M	L	F	964
3034	GCA	ACA	CAT	TAC	CAC	CCT	CTC	ACC	AAG	GAA	TTC	GCC	TCT	CAC	CCA	CGT	GTC	ACC	TCG	AAA	3093	
965	A	T	H	Y	H	P	L	T	K	E	F	A	S	H	P	R	V	T	S	K	984	
3094	CAC	ATG	GCT	TGC	GCA	TTC	AAA	TCA	AGA	TCT	GAT	TAT	CAA	CCA	CGT	GGT	TGT	GAT	CAA	GAC	3153	
985	H	M	A	C	A	F	K	S	R	S	D	Y	Q	P	R	G	C	D	Q	D	1004	
3154	CTA	CTG	TTC	TTG	TAC	CGT	TTA	ACC	GAG	GGG	GCT	TGT	CCT	GAG	AGC	TAC	GGA	CTT	CAA	GTG	3213	
1005	L	V	F	L	Y	R	L	T	E	G	A	C	P	E	S	Y	G	L	Q	V	1024	
3214	GCA	CTC	ATG	GCT	GGG	ATA	CCA	AAAC	CAA	GTG	GGT	GAA	ACA	GCA	TCA	GGT	GCT	GCA	GGC	3273		
1025	A	L	M	A	G	I	P	N	Q	V	V	E	T	A	S	G	A	A	Q	A	1044	
3274	ATG	AAG	AGA	TCA	ATT	GGG	GGG	AAAC	TTC	AAAG	TCA	AGT	GAG	CTA	AGA	TCT	GAG	TTC	TCA	AGT	3333	
1045	M	K	R	S	I	G	E	N	F	K	S	S	E	L	R	S	E	F	S	S	1064	
3334	CTG	CAT	GAA	GAC	TGG	CTG	CAG	TCA	TTC	GGT	ATT	TCT	CGA	GTC	GCC	CAC	AAC	AAT	GCC	3393		
1065	L	H	E	D	W	L	K	S	L	V	G	I	S	R	V	A	H	N	N	A	1084	
3394	CCC	ATT	GGC	GAA	GAT	GAC	TAC	GAC	ACT	TTG	TTT	TGC	TTA	TGG	CAT	GAG	ATC	AAA	TCC	TCT	3453	
1085	P	I	G	E	D	D	Y	D	T	L	F	C	L	W	H	E	I	K	S	S	1104	
3454	TAC	TGT	GTT	CCC	AAA	TAA	ATG	GCT	ATG	ACA	TAA	CACTATCTGAAGCTCGTTAAGTCTTGTGCTCTCT	*	*	*	*	*	*	*	5		
1105	Y	C	V	P	K	*	M	A	M	T	*	*	*	*	*	*	*	*	*	*	19	
3522	G	ATG	TTT	ATT	CCT	CTT	AAA	AAA	TGC	TTA	TAT	ATC	AAA	TTC	TCT	CCT	CGA	TTA	AAA	3579		
1	M	F	I	P	L	K	K	C	L	Y	I	K	K	L	F	P	R	L	K	19		
3580	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	AAA	3606									
20	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	K	28		

Figure 9 (Continued)

Figure 10

TTTTTTGGTTGCTAACATAAAGGTACGGTTTATGTCATCAATATAA	50
CTATATATAAAAGAACATGAAAGATATATATTGTTTTCATTTATCAAAC	100
AAAACAACAAGACTTTTTTACTTTTACATTGGTCAACAAAATACAA	150
GATAAACGACATCGTTAACATTTCCAATTACCCCTAACGTTAACAA	200
CCTAGAACCTTCTCCATCTCGCAAGCACAGCCTGATTAGAACAGCTTT	250
ACCATTCTCATATTCCCTGAACCTACCTGAGTCCTCTCATTGATCTGTTCG	300
CCAAATCCGTTGTGACATCTTCTCCAATCTCGTTCTGTATCATC	350
AACCTCACCTCTGTTCACACGATCCATGCCGCAGGCTCTGTTCTTC	400
TTCCAGCTCTCGTGTAAACCGGAACCGCCGTAGATTCCCTTT	450
TGTCGAACCGGCATCGAACCTTAACCGTTGAACCGCGACACCGTT	500
CTCAGAGCTGCGTTAACCGCTTCGGATCGCTAGGTCTGGCTCTTG	550
TTTGATTTGGAGAACTACTGGTCCCAGTCTGTGTACTGCTCTG	600
GGTATCTGCTCGGCATCGTCGATGAATTGAGAGAAAGGAACACCGCAA	650
ATTTTATTAATCTGAGTTGAAATTGAGAAACGATGAAGATGAAGAATG	700
TTGTTGAGAGGATTGTGATATTATATACGAAGATTGGTTCTGGAGA	750
ATTGATCATCTTCTCCATTTCGTCGATTAACCAATGCTTTGGGT	800
TGGATTCGTGGTACACCATTATCCGATTGGCTCAATGGTTTATATA	850
AATTGGTTTCCGTTCGGTTATGAGTTATCATTAAAATAGCTAACCA	900
AAAAATTTCGTAAAATTATTCGTTCAATTCCGATCCCTACTTCCA	950
GAACCGAATTATTCGAAACCGGGTTAGCCGAACCGAACCAATGCCTG	1000
ATTGACTCGTGGCTAGAAAGATCCAACGGTATACAATAAGAACATAA	1050
ATCGGACGGTCATCAAAGCCTCAAAGAGTGAACAGTCACAAAAAAAGTT	1100
GAGCCCTGAGGAGTACGTTCCGCCATTCTACGACGCAAGGCGAAAAT	1150
TTTGGCGCCAATCTTCCCCCTTCGAATTCTCTCAGCTAAACATC	1200
GTTTCTCTCACTCTCACAATTCCAAAAAATGACGCGCCAGAGAT	1250
CGATTTGTCTTCTTCCAAAAACCCACGGCGGCGACTACGAAGGGTTG	1300
GTTTCCGGCGATGCTGCTAGCGGGGGGGCGCAGCGGAGACCACGATTT	1350
AATGTGAAGGAAGGGATGCTAAAGGCACGCTCTGTACGTTTGCTGT	1400
TTCGAAATCTGTCGATGAGGTTAGAGGAACGGAACTCCACCGGAGAAGG	1450
TTCCCGCTCGTGTCTGCCGTCTGGATTAAAGCCGGCTGAATCCGCCGT	1500
GATGCTTCGTCCTGTTCTCCAATTATGCATAAGTTCTAAAGTCGA	1550
TGATCGAGATTGTTCTGGAGAGAGGTACTAATCTCGATTCTCTTAATT	1600
TGTTATCTTAGCTGGAAGAAGAAGATTGCTGAATTGTTGATTCGTT	1650
GGAGAGATTCTGATTACTGCATTGGATCGTTGTTACAAATTTCAGGAG	1700
CCGAGAAGATGTTCTCGCTGAATGATTCTATGTATGAAGGCTA	1750
ATGATGTTATTCTCAATTCTGTTCCAATAATGGTAAACTCAAGAAAGA	1800
AACCATGCTTTAGTTCTGAGGGAGAGCTGAACCTAGATCAGTAGAAGA	1850
TATAGGAGTAGATGGCGATGTTCTGGTCCAGAAAACACCAAGGGATGCC	1900
CACGTGCTTCTCGCTGAAGCGAGTTCTGGAGGATGAAATGACTTTAAG	1950
GAGGATAAGGTTCTGTTGGACTCTAACAAAAGGCTGAAATGCTCCA	2000
GGATCCGGTTGTGGAGAGAAGAAAGTAAACGAAGGAACCAAATTG	2050
AATGGCTTGAGTCTCTCGAACATCAGGGATGCCAATAGAAGACGTCTGAT	2100
GATCCCCCTTACGATAGAAAGACCTTACACATACCACCTGATGTTCAA	2150
	2200

Figure 11

GAAAATGTCTGCATCACAAAGCAATATTGGAGTGTAAAGAGTGAATATA	2250
TGGACATTGTGCTTTCTTAAAGTGGTAGTAACTATTAAATCTAGTGT	2300
CAATCCATTCCCTCAATGTGATTGTTCACTTACATCTGTTACGTTATG	2350
CTCTTCTCAGGGGAAATTTATGAGCTGTATGAGCTAGATGCGGAATTAG	2400
GTCACAAGGAGCTTGAUTGGAAGATGACCATGAGTGGTGTGGGAAATGC	2450
AGACAGGTAAATTAGTTGAAACAUTGGCCTGCTGAATTATTGTGTCA	2500
TAAATTTGACACCACCTTGTTCAGGTTGGTATCTCTGAAAGTGGGA	2550
TAGATGAGGCAGTGAAAAGCTATTAGCTCGTGGTAAGGGAACCATCAT	2600
ACTTTATGGAATTGTTACTGCTACTCGGCTAGGATTTAAGAAATGGA	2650
AATCACTTCAAGCATCATTAGTTAGGATCCTGAGAACTCAGGATGTTTC	2700
TTATTGTTATATAATAAGTCTTTCATCAAGGAGTAACAAACAAAACCTT	2750
GCACAATATTGTGTGCTACTGGCAAGGCATATATAACCCAGCTAACCTT	2800
TGCTAGTTCACTGTAGTAACAGTTACGGATAATATATGTTACTTGTATG	2850
TGGTACCCCTCATTTGTCTCATGGAGGCTTCAAGCCTGTGTTGAAA	2900
CTGGATAGTTACATATGCTTCAACAGAAACTAGCATGCGAGATTCAATATG	2950
CTTCCCTATTCTACTAATTATGTATTGACACACTCGTTCTTGTGAA	3000
AGATATAAAAGTGGACGAATCGAGCAGCTAGAAACATCTGACCAAGCAAA	3050
AGCCAGAGGTGCTAATACTGTAAGTTTCTGATAGGTCAAGGAGAGTG	3100
TTGCAGACTTTTGTATCATTTCTTGTACATTACTTCTGCTG	3150
TAATTAACCTCAATGGCTATTCTGGCTGATTATCAGATAATTCCAGGAA	3200
GCTAGTTCAGGTATTAACCTCCATCAACAGCAAGCGAGGGAAACATCGGGC	3250
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TACCAATCTCCATCAAGCTGTGAAAGGATTGGAATTAGAAAATCATT	3400
ATTTGATGCTTGTATATGCAAGAGGTTCCCTTGAAAAGATCTGTT	3450
AAGATTCTTGCACTTGAAAATTCAATCTTTAAGTGAATCCCCACT	3500
TTCTTACAATGATCATAGCTGCAATTGATGCAAGTAATATCATTCT	3550
TGTTACTGCATCCCCCTCTTCTTAATGACCATTGCTATGTTGTGTTG	3600
TCTCGTGTGCTGGAGAAAATGATAGCTGATCCAAGCTGTACATTATCATG	3650
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AAGTGTCAACTGTGTATGGATTGCTTGTGACTGTGCTGCCCTGAG	3800
GTTTGGGTTGGTCCATCAGCGATGATGCTATGTGCTTGTGCTTGGAG	3850
CGTTATTGATGCAGGTAAAGCAAGTGTATTCTGTATCTTATGTGACCATG	3900
TGACTTCCGTGCATATATTGGGTTGCAGGAACATAATTGAAATCACCA	3950
TTGGTATGTTTCCAGGTTCTCAAAGGAAGTGTATATGACAGTA	4000
AAGTAAACTGCTGTATGCCAGTTGTTAAACAGAATTAAAGGT	4050
AAATGACACTGGTTAATTAAAGTGCATACATGTTGAAATATTGACAGGC	4100
TATCAAGAGAACACAAAAGGCTTAAGGAAATATACGTGACAGGTAC	4150
ATTCAGTAGGCAAGCTAAGTGCACATTAAACCGCTCACCGAATGATAGG	4200
TCTCTAAACATTGCTAATGTAGATGATGTTATGTTCAATCTAATAGG	4250
GTCTACGGCGGTACAGTGGCTCCAGTACCAAGTAATGGGGATACAG	4300
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Figure 11 (Continued)

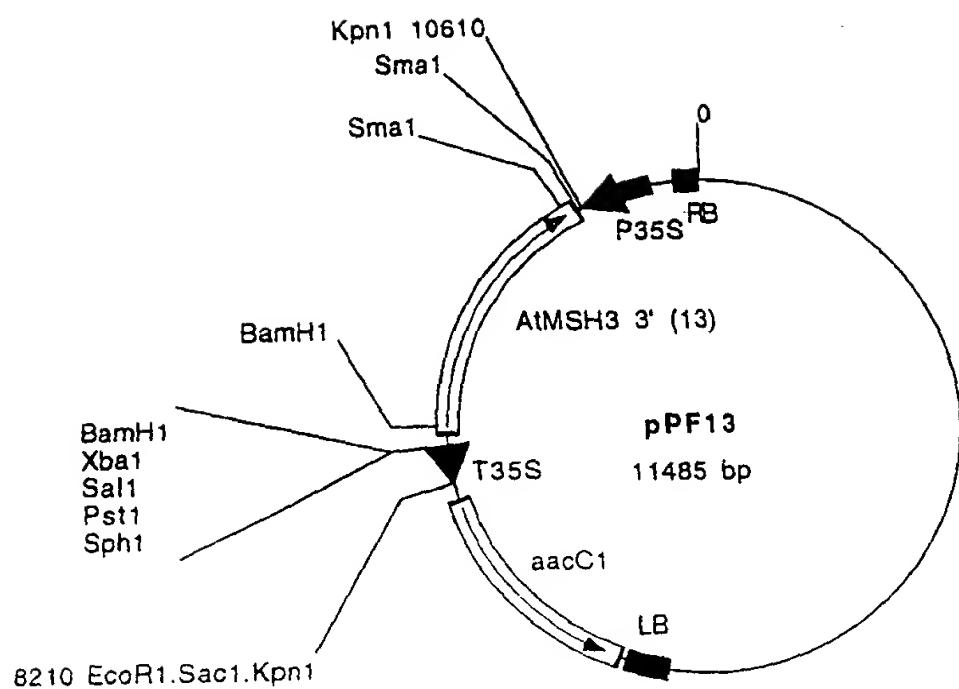
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CACTCAAAGATGTAGAAAGCATCAATAAACGGCTTGATGTAGTTGAAGAA	4900
TTCACGGCAAACCTCAGAAAGTATGCAAATCACTGCCAGTATCTCCACAA	4950
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CATCAGCCTCTGTGTTGCCTGCTCTCTGGGGAAAAAGTGTGAAACAA	5050
CGAGTAAGTATCAATCACAAGTTCTGAGTAATGCCTCCATGAGTAGT	5100
ATAGGACTAAAACATTACGGCTAGCTAAAGACTGTTCTCCTTCTTTG	5150
CAATGTCCTGGTTATTCAATTACATTCTTAACCTATTGCATTGCAGGTT	5200
AAAGCATTGGGCAAATTGTGAAAGGGTTCAGAAGTGGATTGATCTGTT	5250
GTTGGCTCTACAGAAGGAATCAAATATGATGAGTTGCTTATAAACTCT	5300
GTAAACTTCTATATTAGTAGGAAAAGCGGGCTAGAGTTTTCTTCT	5350
CAATTGCAAGCAGCCATAGATAGCGACTTCCAAATTATCAGGTGCCAT	5400
CTATCTTCATACTTACAACAAAATGCTGTCACTACTCAAAGCAATGC	5450
ATATGGCTTAGATCTCAACTCACACCCCGAGGATCTAAAGGGATTGCT	5500
TTTTATTCTAATGTTTGATGGTTGATTTATTCTAACTTGAACCT	5550
ATTAATCTGTACAGAACCAAGATGTGACAGATGAAAACGCTGAAACCTC	5600
TCACAATACTTATCGAACCTTTATCGAAAGAGCAACTCAATGGTCTGAG	5650
GTCATTACACCCATAAGCTGCCAGATGTCCTGAGATCTTGCAATCGC	5700
AGCAAGTCTCTGCTGGAAAGCATGCCAGGCCTGTTATTTTCCGAAT	5750
CAGAAGCTACAGATCAGAACATCAGAAAACAAAAGGGCCAATACTTAAATC	5800
CAAGGACTATGGCATCCATTGCAGTTGCAGCCATGGTCAATTGCCGT	5850
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GCGAAATCTCCCTCGTGGATACTATCTTCACAAGGCTGGCATCTGAT	6150
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GAACATTACTCAGATTTGTCATGGACAAGGTGGTTGCTTTT	6250
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TTCAACTTAACTTGTGATCAACAAAACATGCAATTCAATTGCTGAA	6450
ACTTATTGATTATATCAGGTTTCGTCACCTGGTAGAGAAAGTTCAAT	6500
GTCGGATGCTCTTGCAACACATTACCAACCGCTCTACCAAGGAATTCGCG	6550
TCTCACCCACGTGTCACCTCGAAACACATGGCTTGCGCATTCAAATCAAG	6600

Figure 11 (Continued)

ATCTGATTATCAACCACGTGGTGTGATCAAGACCTAGTGTCTTGTACC	6650
GTGTAACCGAGGGAGCTTGTCTGAGAGCTACGGACTCAAGTGGCACTC	6700
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AGCCATGAAGAGATCAATTGGGAAAATTCAAGTCAAGTGAAGCTAAGAT	6800
CTGAGTTCTCAAGTCTGCATGAAGACTGGCTCAAGTCATTGGTGGTATT	6850
TCTCGAGTCGCCACAAACAATGCCCAATTGGCGAAGATGACTACGACAC	6900
TTTGTGTTGCTTATGGCATGAGATCAAATCCTCTTACTGTGTTCCCAAAT	6950
AAATGGCTATGACATAACACTATCTGAAGCTCGTTAAGTCTTGTCTCT	7000
CTGATGTTATTCTCTTAAAAATGCTTATATATCAAAAAATTGTTCC	7050
TCGATTATAACAAGATTATATATGTATCTGTCGGTTAGCTATGGTATAT	7100
AATATATGTATGTTCATGAGATGGTCAAGAGAAATACTCACAAACAGTA	7150
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GCAAATAACCTCGACTAAAGTTGCAAAGACCAAACACAAATTACAAAAC	7250
TATAAGACTTAAGTCTGAATTCCCTAAAACCAAAAAAAACAGAACAA	7300
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CTCATCATCATCACCAACCACCATGATGATTCTCCTCTTACGTAAACC	7450
TAGCAATCTCACTCTGAGCTCTAACAATCTGCTTCTGCAACTCC	7500
AAATCTCTGAAAATCAGCTCTCATCTTCTCCAACTCCCTCATTTGCTC	7550
TTTCTTACTCTTCTCCATCTTCTCATAAACCTCCAAACCTCTAACAG	7600
AATCCGCCAACATCTTATACGAAGCAGCGTCATTAACCTTCTCTCG	7650
TACTCAACCTCATCATCCTCATCCTCCTCTTCAAGATCACCAGGACT	7700
ATCCATCATCTCATCAAACCCATTAGACTTATCTAAATAACCTTAGTGT	7750
TCATAAACACAAACTCACCTGAATCAACACCAAGCTAAACCTAAATCC	7800
GACTTGGGCGAAACACAAAGCAACATATCCAACCTATTGAAAAACGACCA	7850
TTTACTTGAACCTAAACCTGATTCTCAACCTTAATCTCTTTCTAT	7900
ACTTCCTCTCAAGTCATCAATCATTCTCCTACATTGCGTCTCAGATTTC	7950
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GTTCTCAAACCTCCTCTACCCATTGCAAAAACCTATCTCCCCAAACTT	8050
CAAGCAACACAA	8062

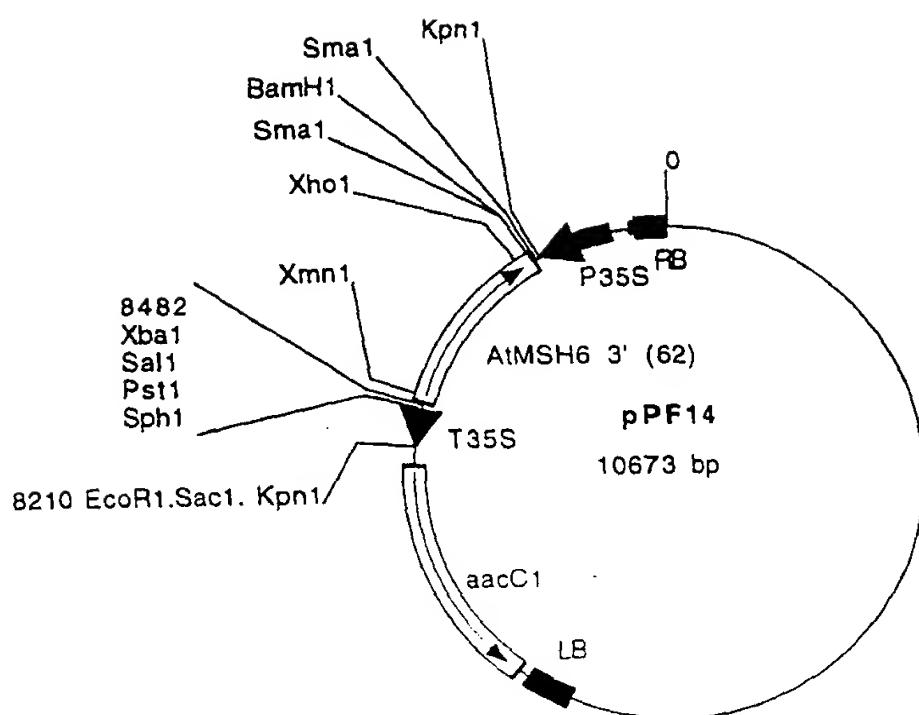
Figure 11 (Continued)

PCT/EP98/06977



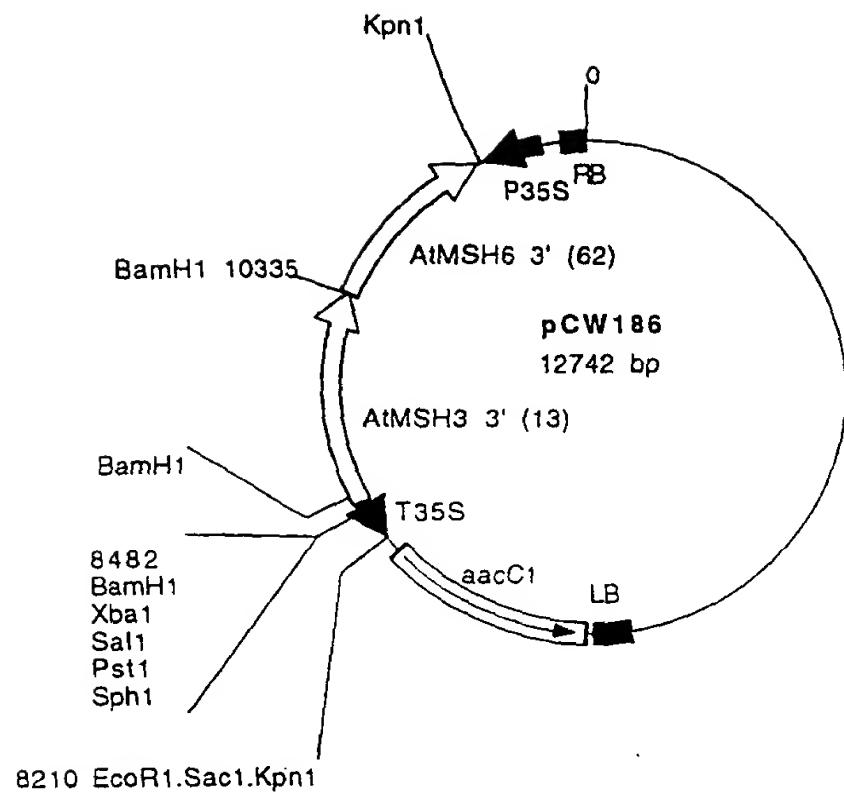
## Figure 12

**Comments/References:** AtMSH3 3' side antisense : AtMSH3 3' (13 = 2104bp) from pUC18/13 Sal1/Sst1/T4 into pCW164 BamH1/T4 in Agrobacterium LBA4404



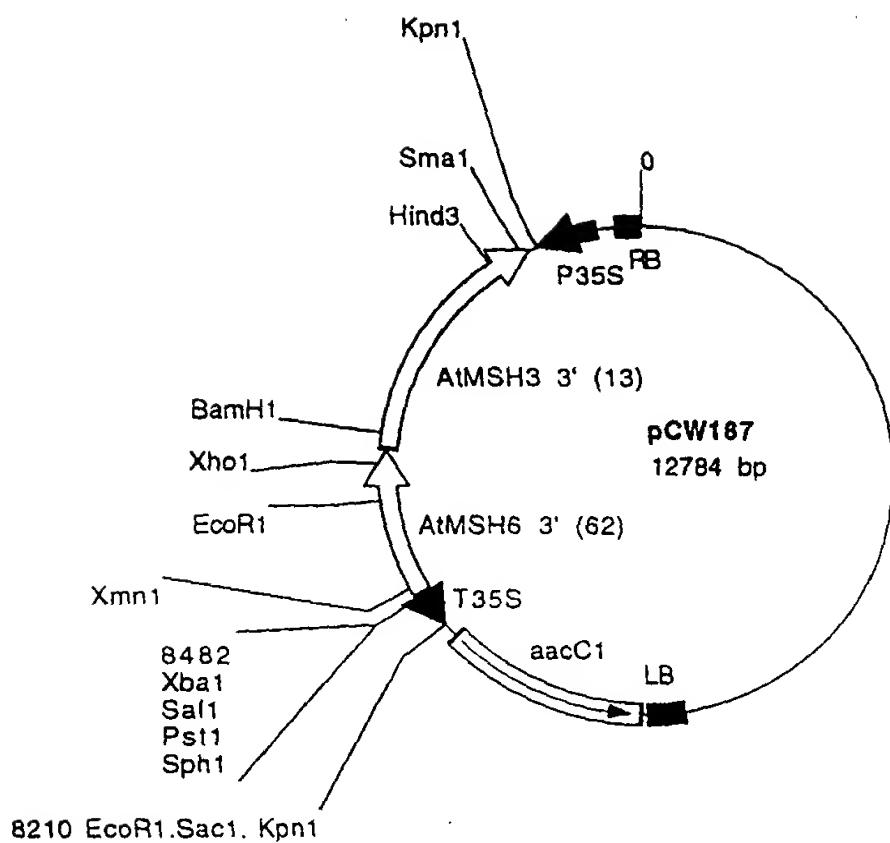
**Figure 13**

**Comments/References:** AtMSH6 (S8) 3' side antisens : 62 Sal1/Sst1/T4 (1379bp)  
into pCW164 BamH1/T4



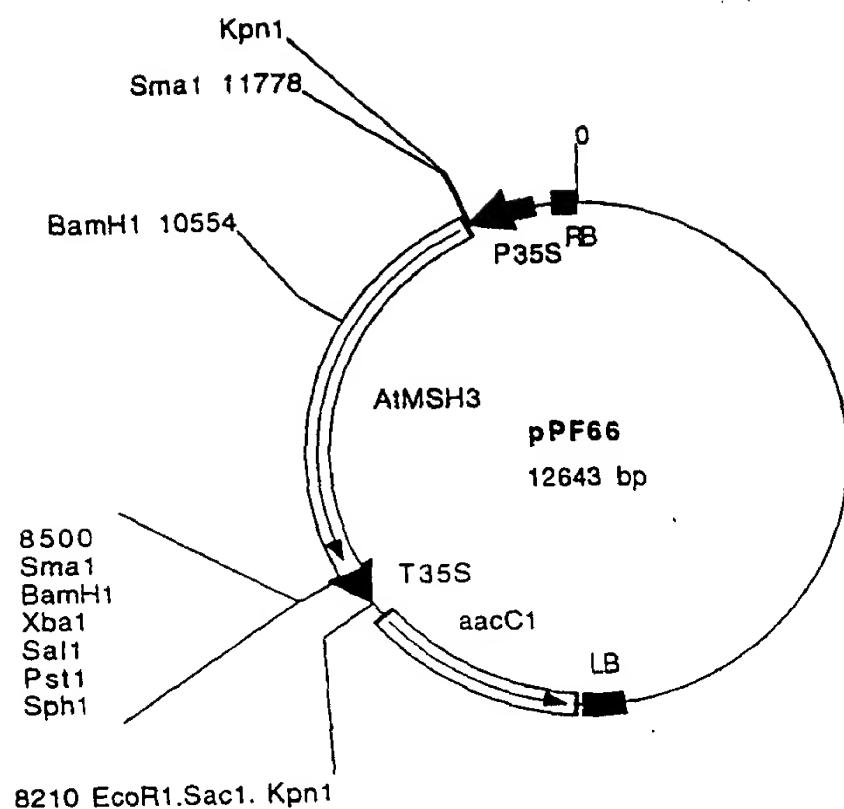
**Figure 14**

**Comments/References:** AtMSH6 3'/AtMSH3 3' antisense : AtMSH6 (S8) 3' side (62=1379bp) Sal1/Sst1/T4 into pPF13 (pCW164 AtMSH3 (S5) 3' side (13=2104) antisens)/Sma1. in LBA4404



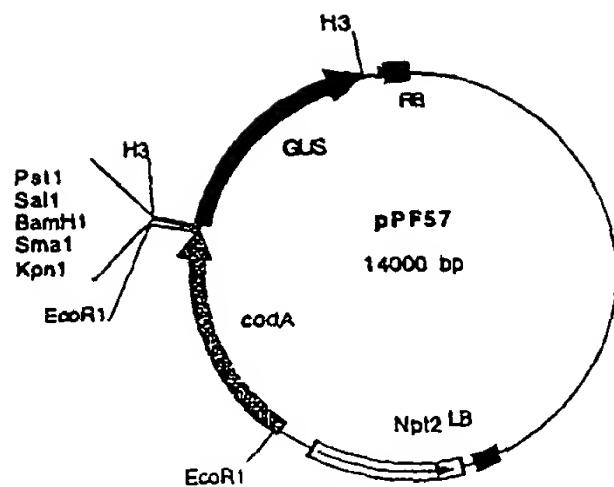
**Figure 15**

**Comments/References:** AtMSH3 3'/AtMSH6 3' antisens (D) : AtMSH3 (S5) 3' side (13=2104bp) Sal1/Sst1/T4 into pPF14 (AtMSH6 (S8) 3'side (62=1379bp) antisense into pCW164)/Sma1. in LBA4404



**Figure 16**

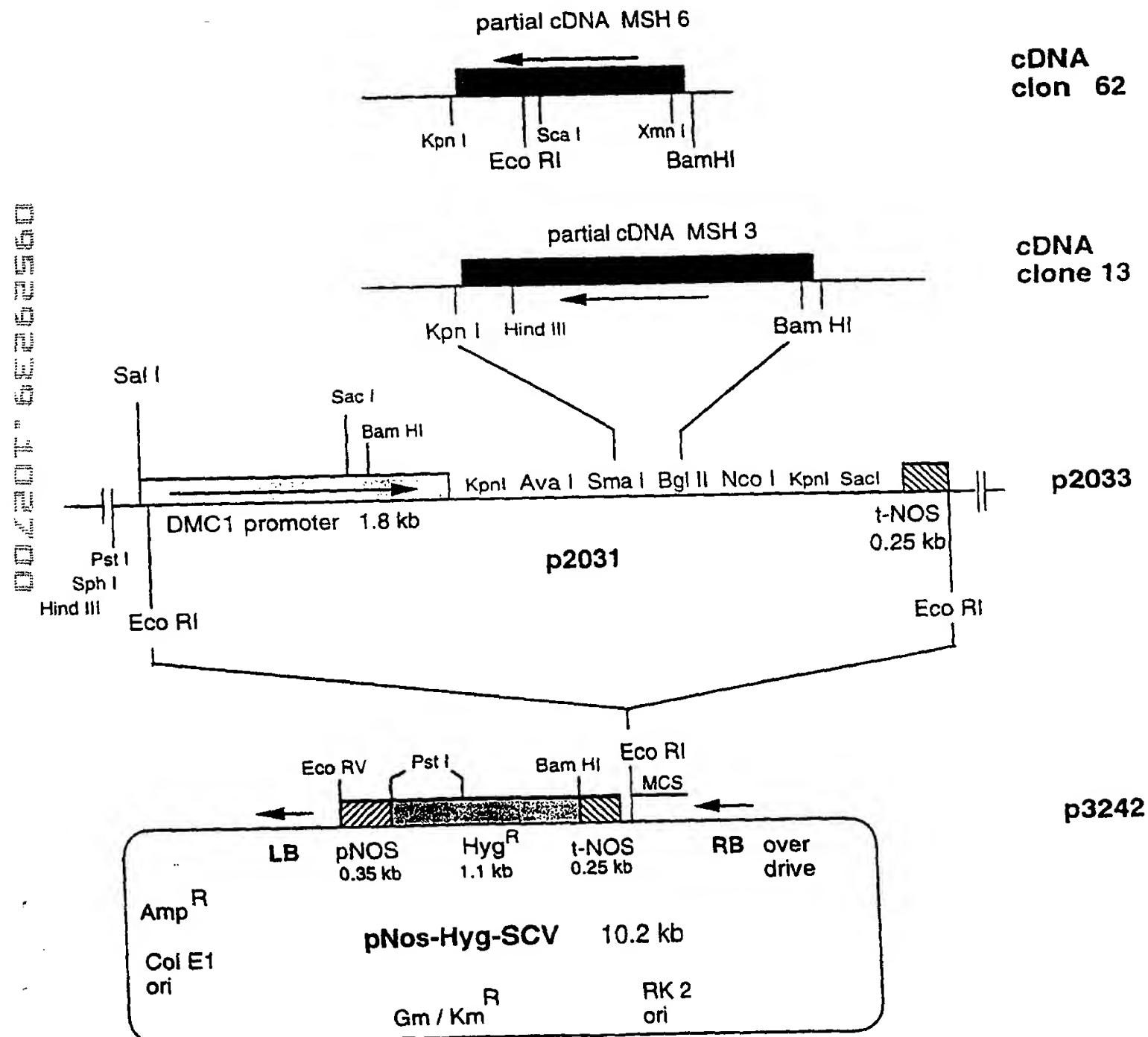
**Comments/References:** A1MSH3 (S8) complete, sense orientation : pPF26 (3342bp)  
Sma1 into pCW164 Sma1



**Figure 17**

**Comments/References:** pPZP111 with codA EcoR1 cassette in EcoR1 site and Hind3 GUS cassette in Hind3 site. KanR. All genes under Promoter/terminator 35S

Figure 18



**Figure 19****p3243**